

ABSTRACT OF THE DISCLOSURE

Methods and a system for evaluating the electrical conductivity of a defined DNA sequence are disclosed. The method comprises the step of calculating the degree of asymmetry of the defined DNA sequence. A system for determining a measure of electrical conductivity of a defined DNA sequence is disclosed which comprises a computer containing within a memory device within it, an algorithm capable of calculating the degree of asymmetry of the defined DNA sequence. A method for the evaluation of the electrical conductivity of a defined DNA sequence is disclosed which comprises the step of providing instructions on a computer readable medium for a calculation of the degree of asymmetry of the defined DNA sequence.